### PATENT COOPERATION TREAT

### From the INTERNATIONAL SEARCHING AUTHORITY

Brinks Hofer Gilson & Lione Attn. Rauch , Paul E. P.O. Box 10087 Chicago, Illinois 60610 UNITED STATES OF AMERICA

## **PCT**

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

	Date of mailing (day/month/year) 09/11/2001
Applicant's or agent's file reference	
10322/21	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 01/41081	International filing date (day/month/year) 20/06/2001
Applicant	
BOARD OF TRUSTEES OF UNIVERSITY OF ILLIN	OIS

1. X	The appl	licant is hereby r	otified that the International	Search Report has bee	en established and is transmitted herewith.
	Filing of The appl	f amendments a licant is entitled,	nd statement under Article if he so wishes, to amend the	e 19:   e claims of the Internat	ional Application (see Rule 46):
	When?	The time limit for International Se	or filing such amendments is earch Report; however, for m	normally 2 months from ore details, see the no	n the date of transmittal of the tes on the accompa <b>bling thres</b> HOFER
	Where?	Directly to the	International Bureau of WIF 34, chemin des Colombette 1211 Geneva 20, Switzerla Fascimile No.: (41-22) 740	es nd	NOV 1 8 2001
	For mor	e detailed instr	uctions, see the notes on the	e accompanying sheet.	
2.	The appl Article 17	licant is hereby r 7(2)(a) to that eff	otified that no International sect is transmitted herewith.	Search Report will be e	established and that he abeliaration lunide INE
3.	With reg	gard to the prote	est against payment of (an)	additional fee(s) under	Rule 40.2, the applicant is notified that:
					the International Bureau together with the sion thereon to the designated Offices.
	no	decision has bee	en made yet on the protest; the	ne applicant will be not	ified as soon as a decision is made.
4. Fu	ırther actioı	n(s): The appl	icant is reminded of the follow	ving:	
 	f the applica priority claim	ant wishes to avo	id or postpone publication, a	notice of withdrawal or vided in Rules 90 <i>bis</i> .1	published by the International Bureau. f the international application, or of the and 90 <i>bis</i> .3, respectively, before the
W	thin <b>19 mon</b> wishes to po	nths from the pricestpone the entry	ority date, a demand for interi into the national phase until	national preliminary ex 30 months from the pri	amination must be filed if the applicant iority date (in some Offices even later).
ŀ	pefore all de	signated Offices	ority date, the applicant must which have not been elected elected because they are not	d in the demand or in a	d acts for entry into the national phase a later election within 19 months from the

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

\_ Fax: (+31-70) 340-3016

Authorized officer

Toñi Muñoz-Manneken

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the international Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been fis filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
   "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

## It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

## PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	I (Form PCT/ISA/	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
10322/21	ACTION	220) do well do, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 01/41081	20/06/2001	21/06/2000
Applicant		
BOARD OF TRUSTEES OF UNIV	ERSITY OF ILLINOIS	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists	of a total of 2	
	or a total of sheets.  a copy of each prior art document cited in this	report
Basis of the report		
a. With regard to the <b>language</b> , the language in which it was filed, unli	international search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this
b. With regard to any nucleotide and	d/or amino acid sequence disclosed in the in	ternational application, the international search
The partied out of the pasis of the	e sequence listing : nal application in written form.	,, , , , , , , , , , , , , , , , , , , ,
	rnational application in computer readable form	
	this Authority in written form.	•
	this Authority in computer readble form.	
	sequently furnished written sequence listing do	es not go beyond the disclosure in the
<del></del> -		identical to the written sequence listing has been
2. Certain claims were foun	nd unsearchable (See Box I).	
3. Unity of invention is lack	ing (see Box II).	
4. With regard to the <b>title</b> ,		
X the text is approved as sub	omitted by the applicant	
	ed by this Authority to read as follows:	
<del></del>	, and the second to read as follows.	
5. With regard to the <b>abstract</b> ,		
the text is approved as sub	mitted by the applicant	
the text has been establish	ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may,
6. The figure of the <b>drawings</b> to be publis		it, submit comments to this Authority.
as suggested by the applica		Y Non
because the applicant failed		None of the figures.
because this figure better c		

Form PCT/ISA/210 (first sheet) (July 1998)

#### INT NATIONAL SEARCH REPORT

international Application No PCT/US 01/41081

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C03C25/44 C03C25/26

B01J41/18

B01J20/20

B01J39/16

B01J39/24

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C03C B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO	BE RELEVANT

1-36 1-36
1-36
1-36
1-36

X Further documents are listed in the continuation of box C.	γ Patent family members are listed in annex.
A document defining the general state of the art which is not considered to be of particular relevance  E earlier document but published on or after the international filing date  L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O document referring to an oral disclosure, use, exhibition or other means  P document published prior to the international filing date but later than the priority date claimed	<ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'&amp;' document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
1 November 2001	09/11/2001
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Reedijk, A

## INT. INATIONAL SEARCH REPORT

PCT/US 01/41081

A DE 33 39 756 A (SIGRI ELEKTROGRAPHIT GMBH) 15 May 1985 (1985–05–15) page 7, line 19 – line 36	(Continuation) DOCHMENTS CONSIDER	PED TO BE DELEVANT	PCT/US 0	1/41081
DE 33 39 756 A (SIGRI ELEKTROGRAPHIT GMBH) 15 May 1985 (1985-05-15) page 7, line 19 - line 36				Relevant to claim No.
DE 33 39 756 A (SIGRI ELEKTROGRAPHIT GMBH) 15 May 1985 (1985-05-15) page 7, line 19 - line 36				rielevani (0 ciaim No.
	DE 33 39 756 A 15 May 1985 (19 page 7, line 19	(SIGRI ELEKTROGRAPHIT GMBH) 985-05-15) 9 - line 36 		1-36

## IN1 INATIONAL SEARCH REPORT

PCT/US 01/41081

Information on patent family members

					., 55 51, 11551
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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